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SUBJECT: SPACE AGREEMENT: SPACE BIOLOGY AND MEDICINE
(04.05.02) PROPOSED JOINT PUBLICATION

FOR SCICOUN

1. PLEASE PASS THE FOLLOWING MESSAGE FROM DR. WINTER TO
DR. GUROVSKY WITH COPIES TO INTERCOSMOS AND ACADEMICIAN
GAZENKO AT THE INSTITUTE OF BIOMEDICAL PROBLEMS.

2. MARCH 8, 1978 04.05.02

DR. NIKOLAI N. GUROVSKY
CHAIRMAN OF THE SOVIET WORKING GROUP
ON SPACE BIOLOGY AND MEDICINE
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CHIEF OF THE DEPARTMENT OF SPACE BIOLOGY
AND MEDICINE
THIRD MAIN ADMINISTRATION
USSR MINISTRY OF HEALTH
MOSCOW, USSR

DEAR DR. GUROVSKY:

DURING DISCUSSIONS AT THE JOINT WORKING GROUP MEETING IN NOVEMBER 1977, THE SOVIET SIDE PROPOSED CO-AUTHORSHIP OF THE KOSMOS-936 K204 EXPERIMENT OF DRS. ABRAHAM AND KLEIN WITH DR. TIGRANYAN AND HIS COLLEAGUES. IN RESPONSE TO THIS PROPOSAL, THE U.S. SIDE SUGGESTED THAT THE DATA OBTAINED ON THE ACTIVITY AND REGULATION OF ENZYMES INVOLVED IN LIPOGENESIS SHOULD APPEAR, AS ORIGINALLY AGREED, AS A PUBLICATION BY THE U.S. INVESTIGATORS. HOWEVER, THE U.S. IS AGREEABLE TO AN ADDITIONAL JOINT PUBLICATION BASED ON ADDITIONAL, RELATED INVESTIGATIONS OF U.S. AND SOVIET SCIENTISTS. WE WOULD PROPOSE THE FOLLOWING:

BASED ON THE ASSUMPTION THAT DR. TIGRANYAN AND HIS STAFF ARE CONDUCTING STUDIES ON SOME TRICARBOXYLIC ACID (TCA) CYCLE ENZYMES IN THE MITOCHONDRIAL FRACTION OF THE KOSMOS 936 RAT LIVERS, AND THE FACT THAT DRS. KLEIN AND ABRAHAM ARE ALSO INVESTIGATING SOME TCA ENZYMES, A US/USSR CO-AUTHORED PAPER ON THE ENZYMES OF THE TCA CYCLE WOULD BE OF INTEREST AND MUTUAL BENEFIT.

DRS. KLEIN AND ABRAHAM ARE PREPARED TO CONTRIBUTE TO SUCH A JOINT EFFORT DATA ON THE PRESENCE IN THE CYTOSOL (I.E., SOLUBLE SUPERNATANT) OF THE ENZYMES:

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----- 2. ISOCITRIC DEHYDROGENASE
----- 3. MALIC DEHYDROGENASE
----- 4. FUMARASE

IN ADDITION, DATA ON THE ACTIVITIES OF GLUTAMIC-OXALOA-CETIC AND GLUTAMIC PYRUVIC TRANSAMINASES CAN ALSO BE GIVEN.

DR. TIGRANYAN'S CONTRIBUTION COULD INCLUDE DATA ON THE PRESENCE IN THE MITOCHONDRIAL FRACTION OF THE ENZYMES:

----- 1. ACONITASE
----- 2. ISOCITRIC DEHYDROGENASE
----- 3. MALIC DEHYDROGENASE
----- 4. FUMARASE

DATA ON THE ISOZYMES OF LACTIC, MALIC, AND ISOCITRIC DEHYDROGENASES COULD ALSO BE INCLUDED.

SINCE ALL OF THE ENZYMES MENTIONED ABOVE ARE INVOLVED IN, OR ARE COUPLED TO, THE TCA CYCLE, A PAPER COMBINING THE U.S. AND USSR DATA AS SUGGESTED WOULD BE A VALUABLE ADDITION TO THE BIOCHEMICAL INVESTIGATIONS OF KOSMOS 936.

I LOOK FORWARD TO RECEIVING YOUR COMMENTS ON THE ABOVE
PROPOSAL, INCLUDING THE SPECIFIC CONTRIBUTION DR.
TIGRANYAN AND HIS COLLEAGUES WOULD MAKE.

BEST REGARDS,

DAVID L. WINTER, M.D.
NASA DIRECTOR FOR LIFE

CC:
ACADEMICIAN GAZENKO, INSTITUTE OF BIOMEDICAL PROBLEMS
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